

ATS-032

6 a flywheel body secured to said elastic plate and  
7 having an engageable surface which is engageable with a  
8 clutch disc[,]; and

9 a reinforcing member for reinforcing said elastic plate  
10 at a portion of said elastic plate which is secured to said  
11 crankshaft;

12 said elastic plate having an axial rigidity in the  
13 range of 600 kg/mm to 2200 kg/mm so as to ensure  
14 transmission of engine torque to said driven unit, while  
15 decreasing noise produced by a bending vibration of said  
16 crankshaft[.];

17 wherein each of said elastic plate, said flywheel body  
18 and said reinforcing member comprises a first portion, said  
19 first portion of said flywheel body being placed axially  
20 between said first portions of said elastic plate and said  
21 reinforcing member, and said first portion of said flywheel  
22 body being axially movable between said first portions of  
23 said elastic plate and said reinforcing member.

Please add new claims 19 to 26 as follows:

1 -- 19.<sup>20</sup> (Newly added) A flywheel according to Claim 11,  
2 wherein said reinforcing member (4) and said elastic plate  
3 (2) are fastened to said crankshaft (1) by a fastening means

ATS-032

4 (3), and said elastic plate is clamped between said  
5 crankshaft and said reinforcing member.

2)

1 20. (Newly added) A flywheel according to Claim 19,  
2 wherein said elastic plate is circular and comprises an  
3 outer peripheral portion (2b) surrounding said first portion  
4 of said elastic plate, so that said first portion of said  
5 elastic plate is an inner portion of said elastic plate,  
6 said flywheel body comprises an outer peripheral portion  
7 (5a) which surrounds said first portion of said flywheel  
8 body, so that said first portion of said flywheel body is an  
9 inner portion of said flywheel body, said outer peripheral  
10 portions of said elastic plate and said flywheel body are  
11 fastened together by a second fastening means (6), said  
12 inner portion of said flywheel body comprises an inwardly  
13 facing inside cylindrical surface defining a central  
14 circular hole (5b), said reinforcing member comprises a  
15 cylindrical portion (4a) which is received in said circular  
16 hole (5b) of said flywheel body, and comprises an outwardly  
17 facing outside cylindrical surface surrounded by said  
18 inwardly facing cylindrical surface of said flywheel body,  
19 said first portion of said reinforcing member is in the form  
20 of an outward flange (4b), said first portion of said  
21 flywheel body is slidably mounted on said cylindrical

ATS-032

22 portion of said reinforcing member so that said first  
23 portion of said flywheel body is axially slidable between  
24 said inner portion of said elastic plate and said outward  
25 flange of said reinforcing member.

22  
1 21. (Newly added) A flywheel according to Claim 19,  
2 wherein said inner portion of said flywheel body comprises a  
3 first surface (5f) which is substantially parallel to said  
4 engageable surface (5g) and which faces toward said elastic  
5 plate, and a second surface (5d) which is substantially  
6 parallel to said engageable surface and which faces toward  
7 said outward flange of said reinforcing member, said inner  
8 portion of said elastic plate comprising an abutting surface  
9 confronting said first surface of said flywheel body and  
10 limiting an axial movement of said inner portion of said  
11 elastic plate by abutting against said first surface of said  
12 flywheel body, said outward flange of said reinforcing  
13 member comprises an abutting surface confronting said second  
14 surface of said flywheel body and limiting the axial  
15 movement of said inner portion of said flywheel body by  
16 abutting against said second surface of said flywheel body,

ATS-032

17 an axial distance between said first and second surfaces of  
18 said flywheel body is smaller than an axial distance between  
19 said abutting surfaces of said elastic member and said  
20 reinforcing member.

1 <sup>23</sup> 22. (Newly added) A flywheel according to Claim <sup>21</sup> 21,  
2 wherein said second surface (5d) of said inner portion of  
3 said flywheel body is located axially between said first  
4 surface (5f) and said engageable surface (5g) of said  
5 flywheel body.

1 <sup>24</sup> 23. (Newly added) A flywheel assembly comprising:  
2 a driving shaft (1) for transmitting torque;  
3 a circular elastic member (2) comprising an outer  
4 portion and an inner portion and extending radially inwardly  
5 from said outer portion to said inner portion, said inner  
6 portion of said elastic member being fastened to a shaft end  
7 of said driving shaft;  
8 an annular flywheel member (5) comprising an outer  
9 portion and an inner portion and extending radially inwardly  
10 from said outer portion to said inner portion of said

ATS-032

11 flywheel member, said outer portion of said flywheel member  
12 being fastened to said outer portion of said elastic member,  
13 said inner portion of said flywheel member comprising a  
14 central circular hole; and

15 a reinforcing member (4) comprising a cylindrical  
16 portion (4a) axially extending from a first end to a second  
17 end, an inner portion extending radially inwardly from said  
18 first end of said cylindrical portion, and an outward flange  
19 (4b) extending radially outwardly from said second end of  
20 said cylindrical portion, said inner portion of said  
21 reinforcing member being fastened to said shaft end of said  
22 driving shaft, said cylindrical portion of said reinforcing  
23 member being loosely fit in said circular hole of said  
24 flywheel member;

25 wherein said inner portion of said elastic member is  
26 fixedly clamped between said shaft end of said driving shaft  
27 and said inner portion of said reinforcing member, said  
28 inner portion of said flywheel member is loosely fit over  
29 said cylindrical portion of said reinforcing member and  
30 located axially between said inner portion of said elastic  
31 member and said outward flange of said reinforcing member,  
32 said outward flange is axially spaced from said inner  
33 portion of said elastic member at an axial distance which  
34 allows axial movement of said inner portion of said flywheel

ATS-032

35 body between said inner portion of said elastic member and  
36 said outward flange of said reinforcing member.

25  
1 24. (Newly added) A flywheel assembly according to  
2 Claim 23, wherein said elastic member has an axial rigidity  
3 which is in the range of 600 kg/mm to 2200 kg/mm.

26  
1 25. (Newly added) A flywheel assembly according to  
2 Claim 23, wherein a wall thickness of said inner portion of  
3 said reinforcing member is greater than a wall thickness of  
4 each of said outward flanges of said reinforcing member and  
5 said inner portion of said elastic member, said wall  
6 thickness of each of said inner portion and said outward  
7 flange of said reinforcing member and said inner portion of  
8 said elastic member being a dimension measured in an axial  
9 direction parallel to an axis of said driving shaft.

27  
1 26. (Newly added) A flywheel assembly according to  
2 Claim 23, further comprising a first fastening means for  
3 fastening said outer portions of said elastic member and  
4 said flywheel member together, and a second fastening means  
5 for fastening said inner portions of said elastic member and  
6 said reinforcing member to said shaft end of said driving  
7 shaft, each of said first and second fastening means